

REMARKS

Favorable reconsideration of this application is respectfully requested.

Claims 1-16, 18-20, 30, and 31 are pending in this application. Claims 3-13 and 16-20 stand withdrawn from consideration. Claims 1-2 and 14-15 were rejected under 35 U.S.C. § 103(a) as unpatentable over U.S. 6,055,985 to Bae et al. (herein "Bae") in view of U.S. 7,443,396 to Ilic. Claims 30-31 were rejected under 35 U.S.C. § 103(a) as unpatentable over Bae in view of Ilic and further in view of U.S. 6,366,683 to Langlotz. Those rejections are traversed as now discussed.

Initially, applicants note independent claim 1 is herein amended to clarify certain language therein. Independent claim 1 now even more expressly recites an injection graph is entered by an operator drawing an injection graph directly into the displayed plotting chart image on a touch panel.

According to the features clarified in independent Claim 1, and with reference to Figure 7 in the present specification as a non-limiting example, an injection graph is entered by being drawn into a displayed plotting chart image on a touch panel directly by an operator. In the example shown in Figure 7, the operator can directly use the write pen 108 to draw an injection graph to be entered into the displayed plotting chart image. With that claimed structure a complex liquid injection process for injecting a liquid at an injection rate that changes with time can be easily and precisely entered by an operator.

Applicant submits the features clarified in the claims as written clearly distinguish over the applied art.

The outstanding rejection now appears to newly cite Ilic with respect to the above-noted features of drawing an injection graph into a displayed plotting chart image, the outstanding Office Action specifically stating:

Illic discloses a device comprises an instrument for collecting data and which displays the data to a user. The instrument may comprise an input for receiving data from an environment or unit under test, at least one user input device for receiving user input to the instrument, and a display which displays the data as a signal waveform. The user input device may be any of various types such as a pointing device (e.g., a mouse, a digital pen), a keyboard, a touch screen,...The display may also be any of various type, col. 5, lines 1-19 and abstract. The instrument may be operable to display a virtual magnifying symbol (VMS) on the display.... The virtual magnifying symbol preferably has a region in which magnification occurs, such as a circular region, a rectangular region, or other geometric shape, col. 5, lines 20+. As noted, the signal waveform maybe a time domain waveform. In other words, the Illic reference includes graph entering means for accepting an input action for an operator to drawn the data/information graph having chronologically changing inputting condition in a form of a free curve, or a plurality of rectangular or other geometric shape region directly into the displaed plotting chart image on the touch panel.<sup>1</sup>

Applicants traverse the above-noted grounds for rejection and respectively submit Illic does **not** disclose or suggest an operator entering an injection graph by drawing the injection graph. Illic discloses accepting an input action from an operator, but applicants submit the above-noted grounds for rejection is incorrect in that Illic does not include a graph entering mechanism allowing an operator to draw a data/information graph.

Applicants submit Illic, in contrast to the claimed features, discloses an electric instrument that has a virtual magnifying symbol (VMS) in a display, see for example Figures 5a-5c in Illic. In Illic the VMS is operable by using a user input device such as a pointing device, a keyboard, a touch screen, or physical knobs or buttons. Applicants submit in Illic, however, the instrument receives data of a signal waveform from an environment or unit under test, and ***an operator only positions the VMS over a desired portion of the signal waveform to display a magnified view of the portion of the signal waveform under the***

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<sup>1</sup> Office Action of February 24, 2010, middle of page 3.

**VMS.** As shown for example in Figures 5b and 5c in Ilic, the VMS magnifies a portion of the signal designated.

Ilic, however, does not correspond to the claimed features as Ilic does **not** disclose or suggest that an operator can enter an injection graph by drawing the injection graph in a form of a free curve. That is, for example in Figures 5a-5c Ilic does not disclose or suggest the operator entering the graph shown therein by drawing those graphs in a form of a free curve. Ilic as noted above only discloses utilizing the VMS to magnify portions of the graph that were previously entered, but not by an operator.

Thereby, applicants submit Ilic differs from the claims as written and Ilic does not cure the recognized deficiencies of Bae with respect to the currently claimed subject matter. Thereby, applicants submit the claims as currently written clearly patentably distinguish over Ilic in view of Bae.

Moreover, applicants submit no further disclosures in Langlotz cure the above-noted deficiencies of Bae in view of Ilic.

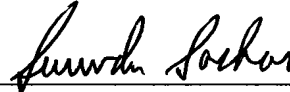
The present response also maintains withdrawn claims 3, 4, 6-13, 16, and 18-20. Amended independent claim 1 is still believed to be generic to all those claims, and in view of the foregoing comments amended independent claim 1 is believed to be allowable. That is, each of those withdrawn claims 3, 4, 6-13, 16, and 18-20 depends either directly or indirectly on amended independent claim 1. Those claims are also herein amended to be consistent with the presently submitted amendments to independent claim 1. Thereby, at this point applicants submit reinstatement of those withdrawn claims 3, 4, 6-13, 16, and 18-20 is proper.

Thereby, applicants respectfully submit the present application is in condition for allowance with each of pending claims 1-16, 18-20, 30, and 31.

As no other issues are pending in this application, this application is believed to be in condition for allowance, and it is respectfully requested that this case be passed to issue.

Respectfully submitted,

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